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DATE MAILED: 06/04/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/662,094	09/12/2003	Ebrahim Andideh	042390P13229D	8869	
7590 06/04/2004			EXAMINER		
George Chen			ERDEM, FAZLI		
BLAKELY, SC	OKOLOFF, TAYLOR & 2	ZAFMAN LLP			
Seventh Floor		ART UNIT	PAPER NUMBER		
12400 Wilshire Boulevard			2826		
Los Angeles, CA 90025			DATE MAILED: 06/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	n No.	G/V	Applicant(s)			
		10/662,09	10/662,094		ANDIDEH, EBRAHIM			
	Office Action Summary	Examin r		- · · · · · · · · · · · · · · · · ·	Art Unit			
		Fazli Erde			2826			
Period fo	The MAILING DATE of this communic	ation appears on the	cover she	et with the c	orrespondence ad	ldress		
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) operiod for reply is specified above, the maximum stature to reply within the set or extended period for reply wire ply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evenication. days, a reply within the statutory period will apply and will, by statute, cause the appl	ent, however, mustory minimum (18 expire SIX (6) ication to become	nay a reply be tim of thirty (30) days) MONTHS from me ABANDONEI	ely filed s will be considered timel the mailing date of this c O (35 U.S.C. § 133).			
Status								
1)⊠	Responsive to communication(s) filed	on 12 September 2	003.					
2a)□								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) <u>8-18</u> is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>8-12 and 15-17</u> is/are rejected Claim(s) <u>13,14 and 18</u> is/are objected Claim(s) are subject to restricting	e withdrawn from coned.						
Applicat	ion Papers							
10)□	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including to The oath or declaration is objected to	a)∭ accepted or b) ion to the drawing(s) b he correction is require	e held in ab ed if the dra	peyance. See wing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	, ,		
Priority (under 35 U.S.C. § 119							
12)[a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation. See the attached detailed Office action	ocuments have bee ocuments have bee f the priority docume al Bureau (PCT Rule	n received n received ents have b e 17.2(a)).	in Applicatio peen receive	on No ed in this National	Stage		
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTo- mation Disclosure Statement(s) (PTO-1449 or Port No(s)/Mail Date 19/12/2003		Paper		(PTO-413) ite atent Application (PT0	O-152)		

DETAILED ACTION

Allowable Subject Matter

1. Claims 13, 14 and 18 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 8-12 and 15-17 rejected under 35 U.S.C. 103(a) as being unpatentable over Sikonia (2002/0076543) in view of Laxman et al. (2002/0172766).

Regarding Claims 8-12 and 15-17, Sikonia discloses layered dielectric nanoporous materials and methods of producing same where a layered low dielectric constant nanoporous material is produced that comprises a first layer juxtaposing a substrate, a second nanoporous layer juxtaposing the first layer, and an additional layer juxtaposing the second layer by the following method: depositing a first layer on a substrate, depositing a second layer that is nanoporous and that juxtaposes the first layer, treating the second layered material to produce nanoporosity and depositing at least one additional layer that partially juxtaposes the second layer. Sikonia fails to disclose the required precursor and the treatment method. However, Laxman et al. disclose a low dielectric constant thin films and chemical vapor deposition method

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of making same where in claims section the required precursor and treatment method are

disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the

invention was made to include the required precursor and the treatment methods in Sikonia as

taught by Laxman et al. in order to manufacture a semiconductor structure with higher reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

May 31, 2004

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